

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P601318

Luminaire Tested: 14CGSB-50-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-50-L830
Description: 1x4 CGSB AT 5000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

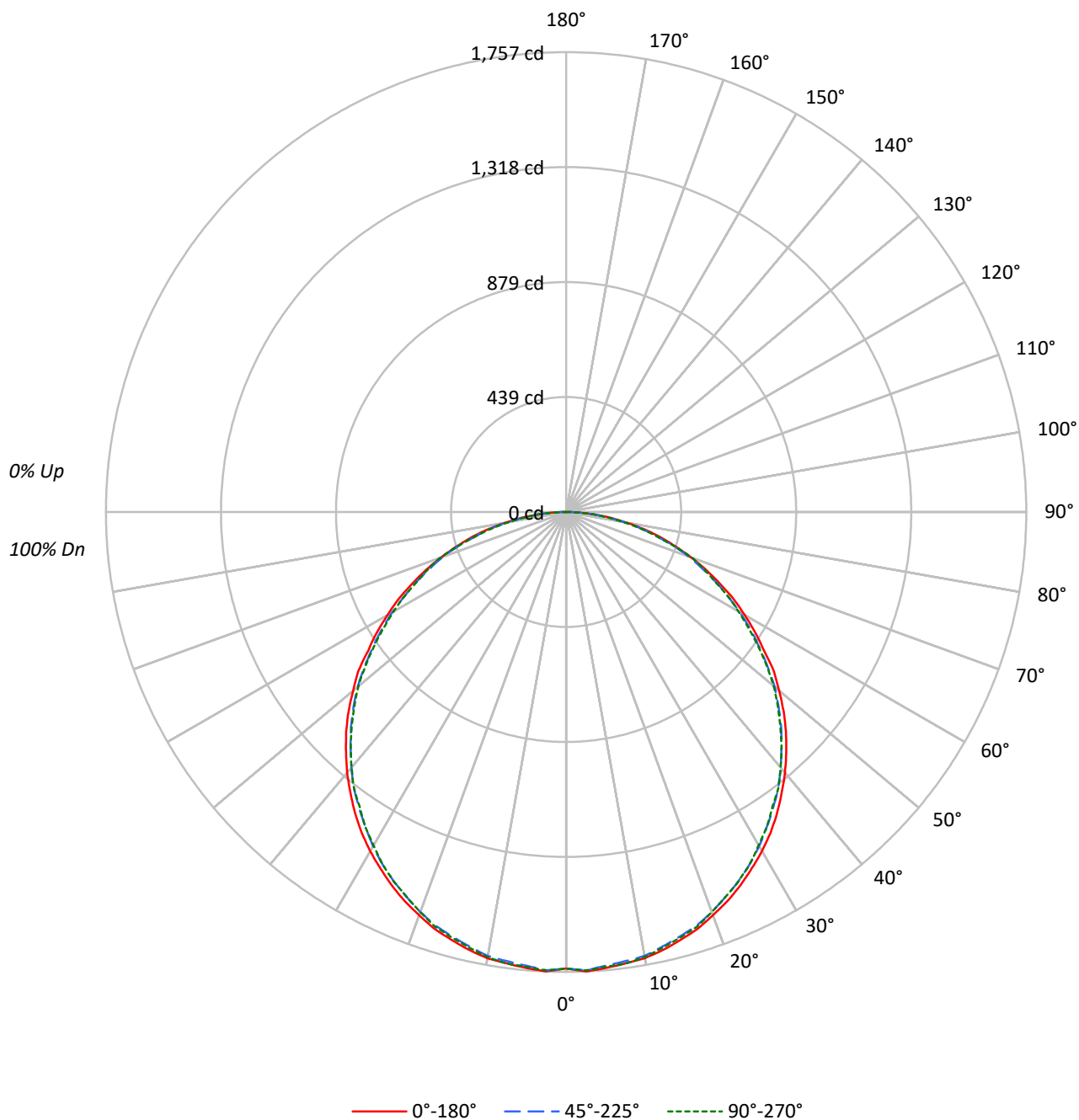
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5062.8 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P601318
CATALOG NUMBER: 14CGSB-50-L830

Luminous Intensity Polar Plot



TEST NUMBER: P601318

CATALOG NUMBER: 14CGSB-50-L830

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	108	103	99	95	106	101	97	94		97	94	91			93	90	88			89
2	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			71	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	70	56	47	41	68	55	47	40		53	46	40			52	45	40			50
7	64	51	42	36	63	50	42	36		48	41	35			47	40	35			46
8	60	46	38	32	58	46	37	32		44	37	32			43	36	31			42
9	56	43	34	29	55	42	34	29		41	33	28			40	33	28			39
10	53	39	31	26	51	39	31	26		38	31	26			37	30	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4693	4693	4693
5°	4722	4699	4710
10°	4729	4706	4717
15°	4713	4676	4689
20°	4695	4657	4657
25°	4674	4622	4622
30°	4648	4581	4567
35°	4614	4528	4514
40°	4568	4476	4476
45°	4518	4419	4402
50°	4442	4351	4333
55°	4325	4223	4203
60°	4236	4119	4096
65°	4126	4015	3987
70°	4003	3935	4037
75°	3889	3708	3708
80°	3639	3572	3437
85°	3356	3223	3223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4518 cd/sqm

TEST NUMBER: P601318
 CATALOG NUMBER: 14CGSB-50-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.3
10°-20°	475.3	9.4
20°-30°	719.2	14.2
30°-40°	866.6	17.1
40°-50°	899.9	17.8
50°-60°	810.4	16.0
60°-70°	626.2	12.4
70°-80°	381.5	7.5
80°-90°	117.9	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1360.3	26.9
0°-40°	2226.9	44.0
0°-60°	3937.1	77.8
0°-90°	5062.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5062.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1748	1744	1740	1740	1744	166
15°	1692	1687	1679	1679	1683	478
25°	1574	1570	1557	1552	1557	725
35°	1405	1396	1378	1374	1374	878
45°	1187	1178	1161	1157	1157	915
55°	922	913	900	896	896	828
65°	648	635	631	622	626	642
75°	374	361	357	352	357	393
85°	109	109	104	100	104	123
90°	0	0	0	0	0	

TEST NUMBER: P601318

CATALOG NUMBER: 14CGSB-50-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1756.9	1756.9	1752.5	1752.5	1752.5
5°	1748.2	1743.8	1739.5	1739.5	1743.8
7.5°	1739.5	1739.5	1730.8	1730.8	1739.5
10°	1730.8	1726.4	1722.1	1722.1	1726.4
12.5°	1713.4	1709.0	1700.3	1700.3	1704.7
15°	1691.6	1687.3	1678.6	1678.6	1683.0
17.5°	1669.9	1665.6	1656.9	1656.9	1661.2
20°	1639.5	1635.1	1626.4	1622.1	1626.4
22.5°	1609.0	1604.7	1591.6	1587.3	1591.6
25°	1574.2	1569.9	1556.8	1552.5	1556.8
27.5°	1535.1	1530.7	1517.7	1513.4	1517.7
30°	1496.0	1487.3	1474.2	1465.5	1469.9
32.5°	1452.5	1443.8	1426.4	1422.0	1426.4
35°	1404.6	1395.9	1378.5	1374.2	1374.2
37.5°	1352.4	1348.1	1330.7	1326.4	1330.7
40°	1300.3	1291.6	1274.2	1269.8	1274.2
42.5°	1243.7	1235.0	1217.6	1217.6	1217.6
45°	1187.2	1178.5	1161.1	1156.8	1156.8
47.5°	1126.3	1117.6	1100.2	1095.9	1095.9
50°	1061.1	1052.4	1039.3	1035.0	1035.0
52.5°	1000.2	987.2	969.8	965.4	965.4
55°	921.9	913.2	900.2	895.8	895.8
57.5°	856.7	843.7	835.0	826.3	826.3
60°	787.1	774.1	765.4	761.0	761.0
62.5°	721.9	704.5	695.8	691.4	695.8
65°	648.0	634.9	630.6	621.9	626.2
67.5°	578.4	565.3	561.0	561.0	569.7
70°	508.8	495.8	500.1	487.1	513.1
72.5°	439.2	430.5	430.5	417.5	430.5
75°	374.0	360.9	356.6	352.2	356.6
77.5°	304.4	300.1	295.7	287.0	291.4
80°	234.8	243.5	230.5	217.4	221.8
82.5°	173.9	169.6	160.9	156.6	160.9
85°	108.7	108.7	104.4	100.0	104.4
87.5°	52.2	52.2	47.8	47.8	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)